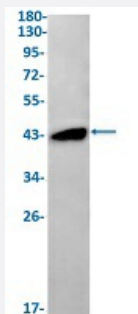


RecomAb™

IDH2 recombinant monoclonal antibody, clone R01-7E4

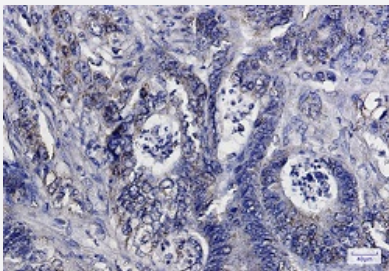
Catalog # RAB02187 Size 100 uL

Applications



Western Blot

Western Blot analysis of 3T3 lysates with IDH2 recombinant monoclonal antibody, clone R01-7E4 (Cat # RAB02187).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with IDH2 recombinant monoclonal antibody, clone R01-7E4 (Cat # RAB02187). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human IDH2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human IDH2.
Theoretical MW (kDa)	Calculated MW: 51 kD
Reactivity	Human, Mouse, Rat
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of 3T3 lysates with IDH2 recombinant monoclonal antibody, clone R01-7E4 (Cat # RAB02187).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human colon cancer with IDH2 recombinant monoclonal antibody, clone R01-7E4 (Cat # RAB02187). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Gene Info — IDH2

Entrez GeneID	3418
Protein Accession#	P48735
Gene Name	IDH2
Gene Alias	ICD-M, IDH, IDHM, IDP, IDPM, mNADP-IDH
Gene Description	isocitrate dehydrogenase 2 (NADP+), mitochondrial
Omim ID	147650
Gene Ontology	Hyperlink

Gene Summary

Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. [provided by RefSeq]

Other Designations

NADP+-specific ICDH|isocitrate dehydrogenase, mitochondrial|oxalosuccinate decarboxylase

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glutathione metabolism](#)
- [Metabolic pathways](#)
- [Reductive carboxylate cycle \(CO2 fixation\)](#)

Disease

- [Astrocytoma](#)
- [Blast Crisis](#)
- [Brain Neoplasms](#)
- [Chronic Disease](#)
- [Disease Progression](#)

- [Glioma](#)
- [Hematologic Diseases](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Melanoma](#)
- [Myelodysplastic Syndromes](#)
- [Myeloproliferative Disorders](#)
- [Neoplasm Metastasis](#)
- [Oligodendroglioma](#)
- [Polycythemia Vera](#)
- [Primary Myelofibrosis](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Thrombocythemia](#)